

<picture>
Spectrometers: [Bruker IFS 66v](#) , [Bruker IFS 66v/S](#) , Nicolet.

Specifications

Unit#: 3083
Detector area: 5.0 x 5.0 mm
Filter cut-on frequency: 35 cm, black PE and wedged Fluorogold
Outer vacuum window: wedged white coated PE with diamond scatter layer
Operating temperature: 4.2 K
Operating range: 2 - 35¹cm
G [μ W/K] = 22.20
R [k Ω] = 6.5
S [V/W] = 5.52 x 10³
NEP [W/Hz^{1/2}] = 4.62 x 10⁻¹³
R [k Ω] = 20 load

Dewar type: HDL-5
Unit#: 3676
Liquid He capacity: 1.2 l
Liquid N₂ capacity: 0.9 l
Liquid He hold time ~24 hours

Overview

When cooled to liquid helium temperatures, absorption of radiation by the carrier lattice electrons causes the

Manufacturer: [Infrared Laboratories](#)
Product catalog: http://www.irlabs.com/pdf/science_technology_catalog.pdf

<spectra>

<link to>How to change a detector?

<link to>How to attach the bolometer to Bruker spectrometers?

<link to>How to fill the bolometer with liquid He?